

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference WO 41770	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IB2004/002304	International filing date (day/month/year) 16/07/2004	(Earliest) Priority Date (day/month/year) 18/07/2003
Applicant TOYOTA JIDOSHA KABUSHIKI KAISHA		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐

With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐

Certain claims were found unsearchable (See Box II).

3. ☐

Unity of invention is lacking (see Box III).

4. With regard to the **title**,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

- b. ☐

none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F15B20/00 F15B11/024

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F15B F16H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/121087 A1 (CASSE CHRISTOPHE LIONEL RENE ET AL) 5 September 2002 (2002-09-05) paragraphs '0032! - '0050!; figures 1-4	1-4, 15-18
A		5,19-21
A	GB 2 318 426 A (ULTRONICS LIMITED ; ULTRA HYDRAULICS LTD (GB)) 22 April 1998 (1998-04-22) abstract; figure 1	1,15
A	GB 2 053 419 A (SINGER CO UK LTD) 4 February 1981 (1981-02-04) abstract; figure 1	1,15
A	US 6 193 627 B1 (BART JOERG) 27 February 2001 (2001-02-27) abstract; figures 2-4	1,6-15, 22,23

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

19 October 2004

Date of mailing of the international search report

27/10/2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

/IB2004/002304

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2002121087	A1	05-09-2002	FR	2811037 A1	04-01-2002
			AU	7068401 A	08-01-2002
			BR	0106894 A	09-04-2002
			CA	2382809 A1	03-01-2002
			DE	60103353 D1	24-06-2004
			EP	1216361 A1	26-06-2002
			WO	0201080 A1	03-01-2002
<hr/>					
GB 2318426	A	22-04-1998	NONE		
<hr/>					
GB 2053419	A	04-02-1981	NONE		
<hr/>					
US 6193627	B1	27-02-2001	DE	19757017 A1	01-07-1999
			JP	2000205360 A	25-07-2000